

ABSTRACT OF THE DISCLOSURE

There is disclosed a process to uniformly and rapidly carry out the mixing of a monomer liquid and a polymerization initiator and thus for the resulting polymer not to adhere to the inner surface of the piping or the inside of the apparatus in an art of producing a water-absorbent resin by continuously mixing the monomer liquid and the polymerization initiator together and thereby carrying out polymerization. This process comprises the steps of: (a) continuously supplying a monomer liquid 20 to such as a supply pipe 10 to continuously stir the monomer liquid 20 in the supply pipe 10 with such as a stirring apparatus 12; (b) causing a polymerization initiator 30 to join into a flow of the monomer liquid 20 being in a stirred state, thereby obtaining a mixed liquid 40 of the monomer liquid 20 and the polymerization initiator 30; and (c) continuously supplying the mixed liquid 40 from the supply pipe line 10 to a polymerization apparatus to cause the mixed liquid 40 to run a polymerization reaction.